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The Author's Response:

ASA Physical Status Classification in Surgical Oncology and the Importance of Improving Inter-Rater Reliability

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We appreciate for a valuable comment by Araujo and Theobald.

Numerous studies have been supported the prognostic role of comorbidity/performance indices in many cancer including urological malignancies such as prostate, bladder, and renal cell carcinoma (1-3).

We also concede that other comorbidity indices such as Charlson comorbidity index (CCI), Adult Comorbidity Evaluation-27 (ACE-27), Eastern Cooperative Oncology Group performance status (ECOG-PS), and Karnofsky performance status (KPS) are more appropriate for decision of chemotherapy eligibility and prediction of cancer related survival than American Society of Anesthesiologists physical status (ASA-PS) (4).

Previous frontier study by Berod et al. (5) showed the correlation between ASA classification and cancer-specific survival (CSS) after radical nephroureterectomy (RNU) in upper tract urothelial carcinoma (UTUC) patients. Without doubt, the aim of our study is not to evaluate the application of ASA-PS in decision on chemotherapy eligibility, but to explore the background of prognostic value of ASA-PS in UTUC patients after RNU.

Although no significant survival impact of ASA-PS score on overall survival (OS) or CSS in patients with localized UTUC was observed in subgroup analysis, high ASA-PS groups with locally advanced disease probably reflects a worse physical status directly related to the cancer itself as your comment (6).

Unfortunately, our multi-institutional data did not include any information about PS and we could not adequately adjust for PS. Further co-operated study is needed to clarify the relationship among ASA-PS and cancer related survival in UTUC patients after RNU.

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REFERENCES

- 1. Lee JY, Lee DH, Cho NH, Rha KH, Choi YD, Hong SJ, Yang SC, Cho KS. Charlson comorbidity index is an important prognostic factor for longterm survival outcomes in Korean men with prostate cancer after radical prostatectomy. Yonsei Med J 2014; 55: 316-23.
- 2. Santos Arrontes D, Fernández Aceñero MJ, García González JI, Martín Muñoz M, Paniagua Andrés P. Survival analysis of clear cell renal carcinoma according to the Charlson comorbidity index. J Urol 2008; 179: 857-61.
- 3. Boorjian SA, Kim SP, Tollefson MK, Carrasco A, Cheville JC, Thompson RH, Thapa P, Frank I. Comparative performance of comorbidity indices for estimating perioperative and 5-year all cause mortality following radical cystectomy for bladder cancer. J Urol 2013; 190: 55-60.
- 4. Hall SF. A user's guide to selecting a comorbidity index for clinical research. J Clin Epidemiol 2006; 59: 849-55.
- 5. Berod AA, Colin P, Yates DR, Ouzzane A, Audouin M, Adam E, Arroua F, Marchand C, Bigot P, Soulié M, et al. The role of American Society of Anesthesiologists scores in predicting urothelial carcinoma of the upper urinary tract outcome after radical nephroureterectomy: results from a national multi-institutional collaborative study. BJU Int 2012; 110: E1035-40.
- 6. Kang HW, Seo SP, Kim WT, Kim YJ, Yun SJ, Lee SC, Choi YD, Ha YS, Kim TH, Kwon TG, et al. Impact of the ASA physical status score on adjuvant chemotherapy eligibility and survival of upper tract urothelial carcinoma patients: a multicenter study. J Korean Med Sci 2017; 32: 335-42.

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